

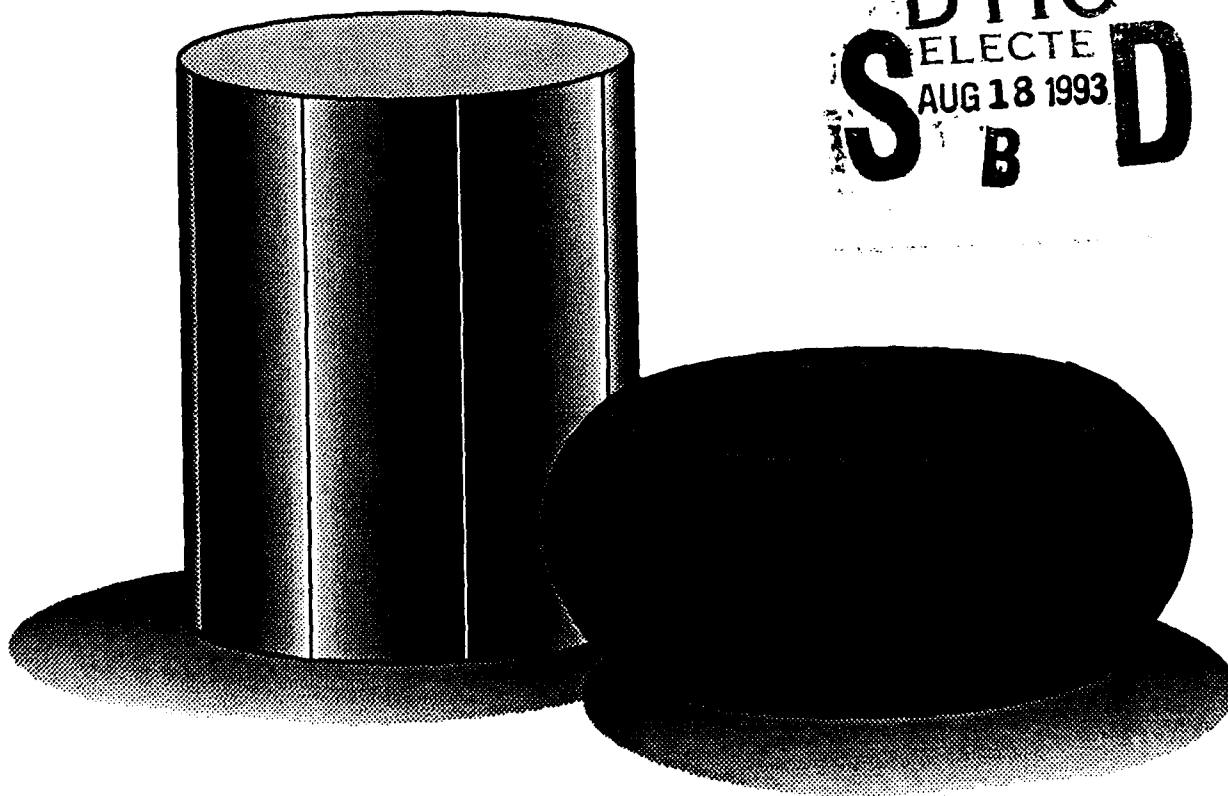
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# Atlas of Formability

Aluminum - 1.5% Copper  
Flow Stress Curves



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13. ABSTRACT (Maximum 200 words)  In this investigation, flow behavior of Aluminum-1.5% Copper alloy was studied by conducting compression tests over a wide range of temperatures and strain rates. Stress-strain curves were recorded for each test condition. These data are essential in metalworking process design or finite element analysis of high temperature deformation.				
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**ATLAS OF FORMABILITY  
ALUMINUM - 1.5% COPPER**

**by**

**Howard A. Kuhn**

**National Center for Excellence in Metalworking Technology  
1450 Scalp Avenue  
Johnstown, PA 15904**

**for**

**Naval Industrial Resource Support Activity  
Building 75-2, Naval Base  
Philadelphia, PA 19112-5078**

**September 30, 1991**

**The views, opinions, and/or findings contained in this report are those of the authors and should not be construed as an official Department of the Navy position, policy, or decision, unless so designated by other documentation**

## TABLE OF CONTENTS

Testing Parameters . . . . .	1
Stress-Strain Curves . . . . .	2

DTIC QUALITY INSPECTED 3

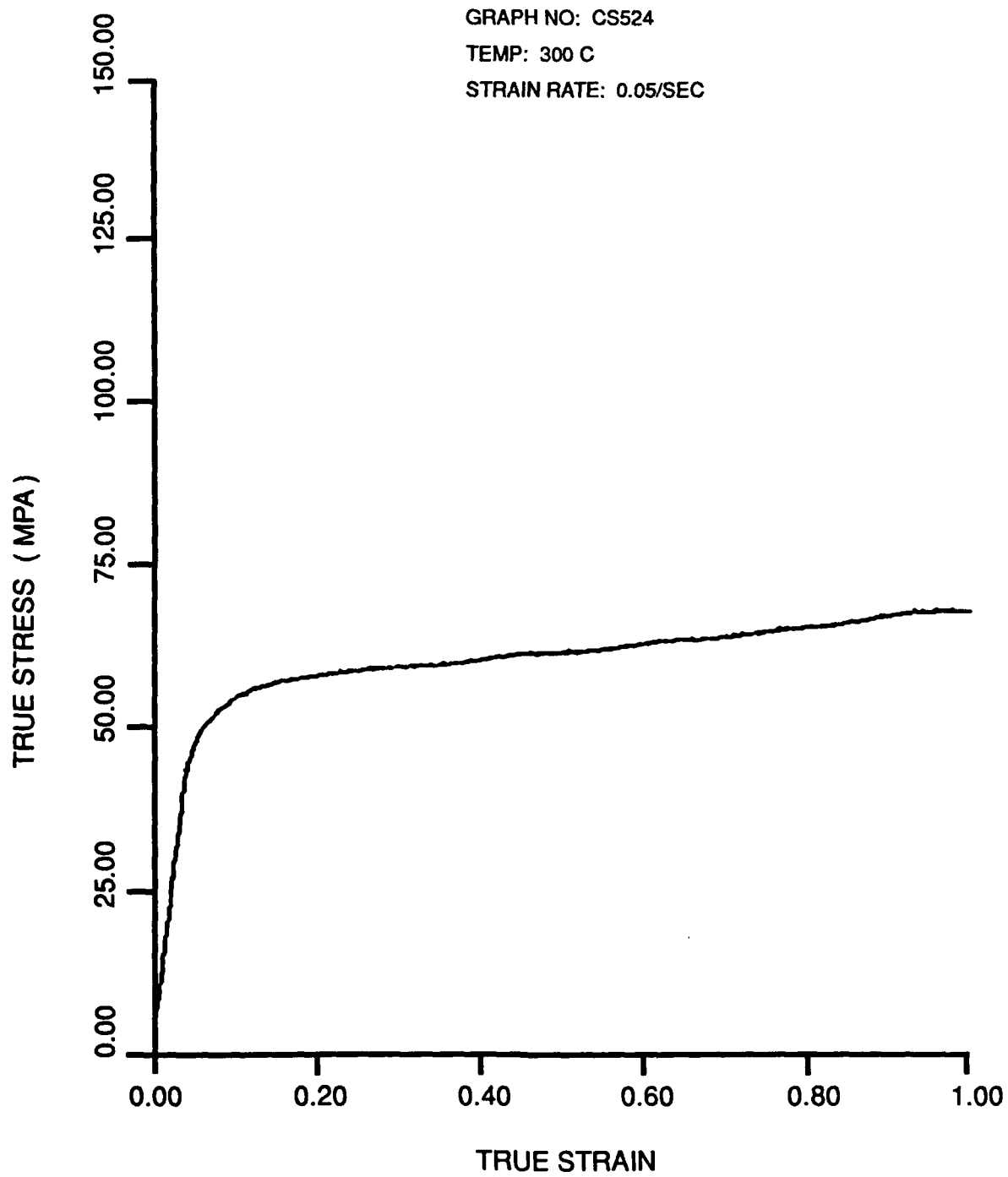
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## Aluminum - 1.5% Copper

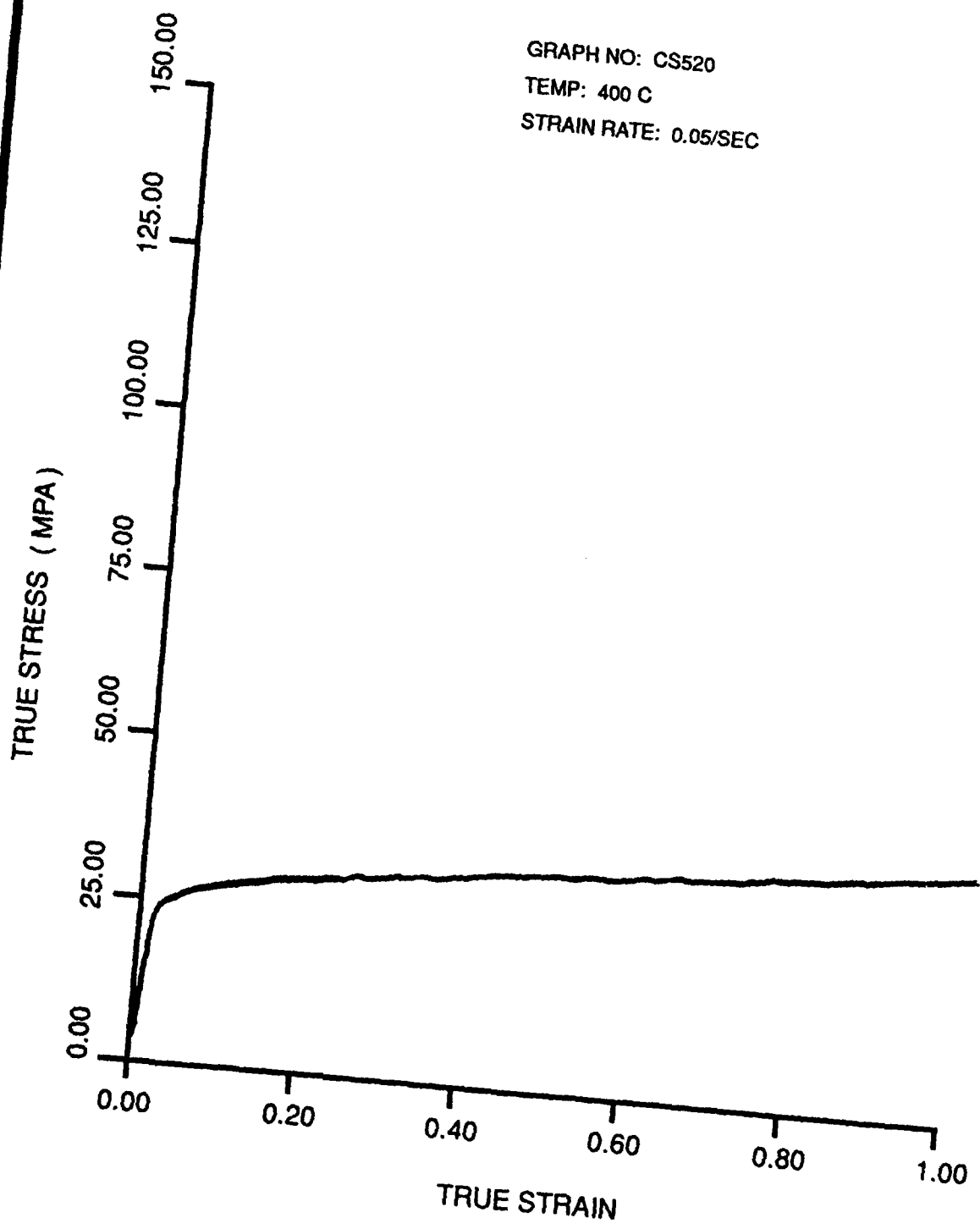
### Testing Parameters

Strain Rate (1/sec.)	Temperature (deg. C)	Graph Number	Page Number
0.05	300	CS524	2
0.05	400	CS520	3
0.05	500	CS521	4
0.05	Combination	CS530	5
0.3	350	CS518	6
0.3	450	CS519	7
0.3	Combination	CS531	8
1.5	300	CS506	9
1.5	350	CS525	10
1.5	400	CS501	11
1.5	500	CS507	12
1.5	Combination	CS532	13
6.0	350	CS509	14
6.0	450	CS508	15
6.0	Combination	CS533	16
15.0	300	CS516	17
15.0	400	CS510	18
15.0	500	CS512	19
15.0	Combination	CS534	20

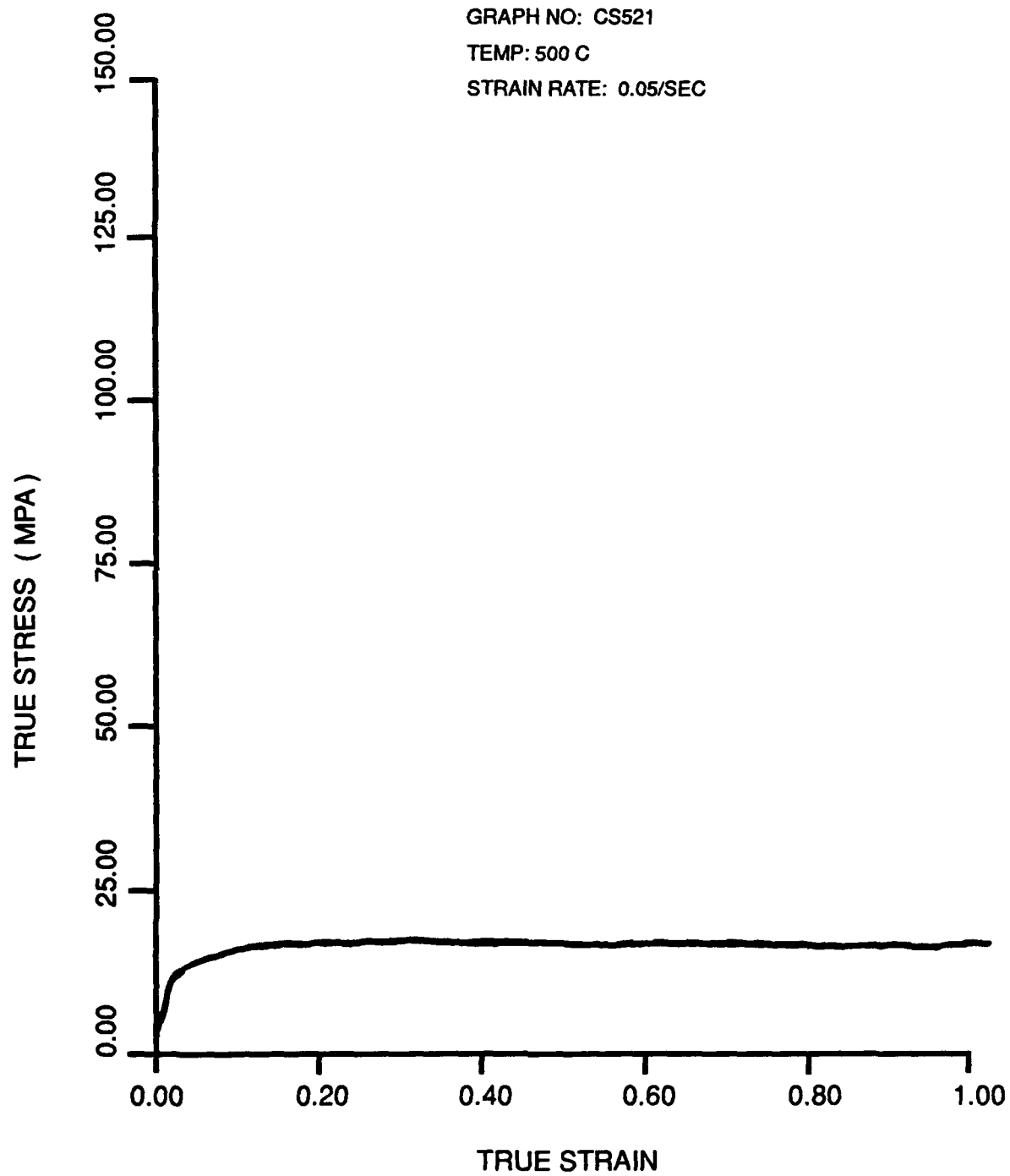


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GRAPH NO: CS520  
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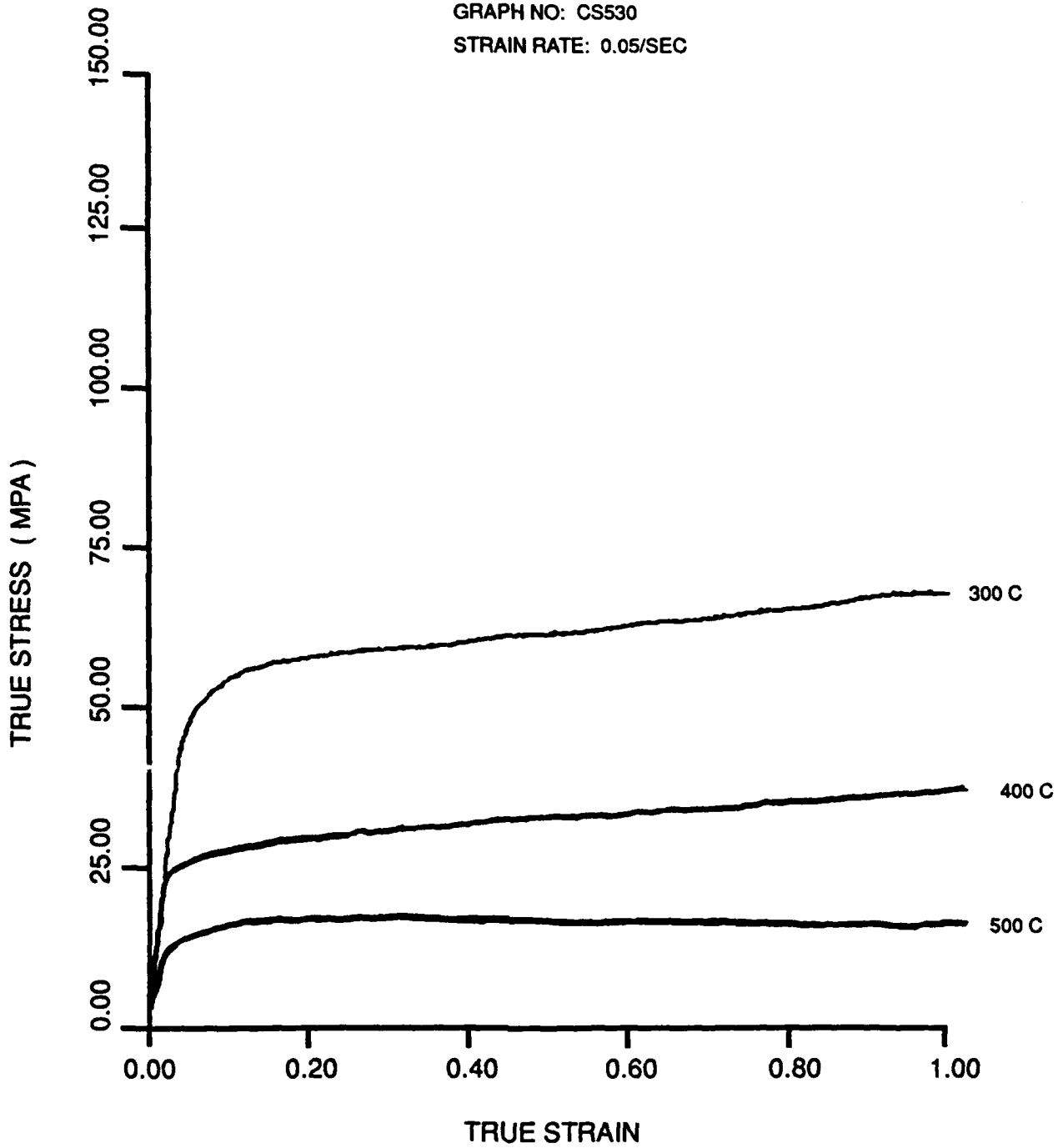


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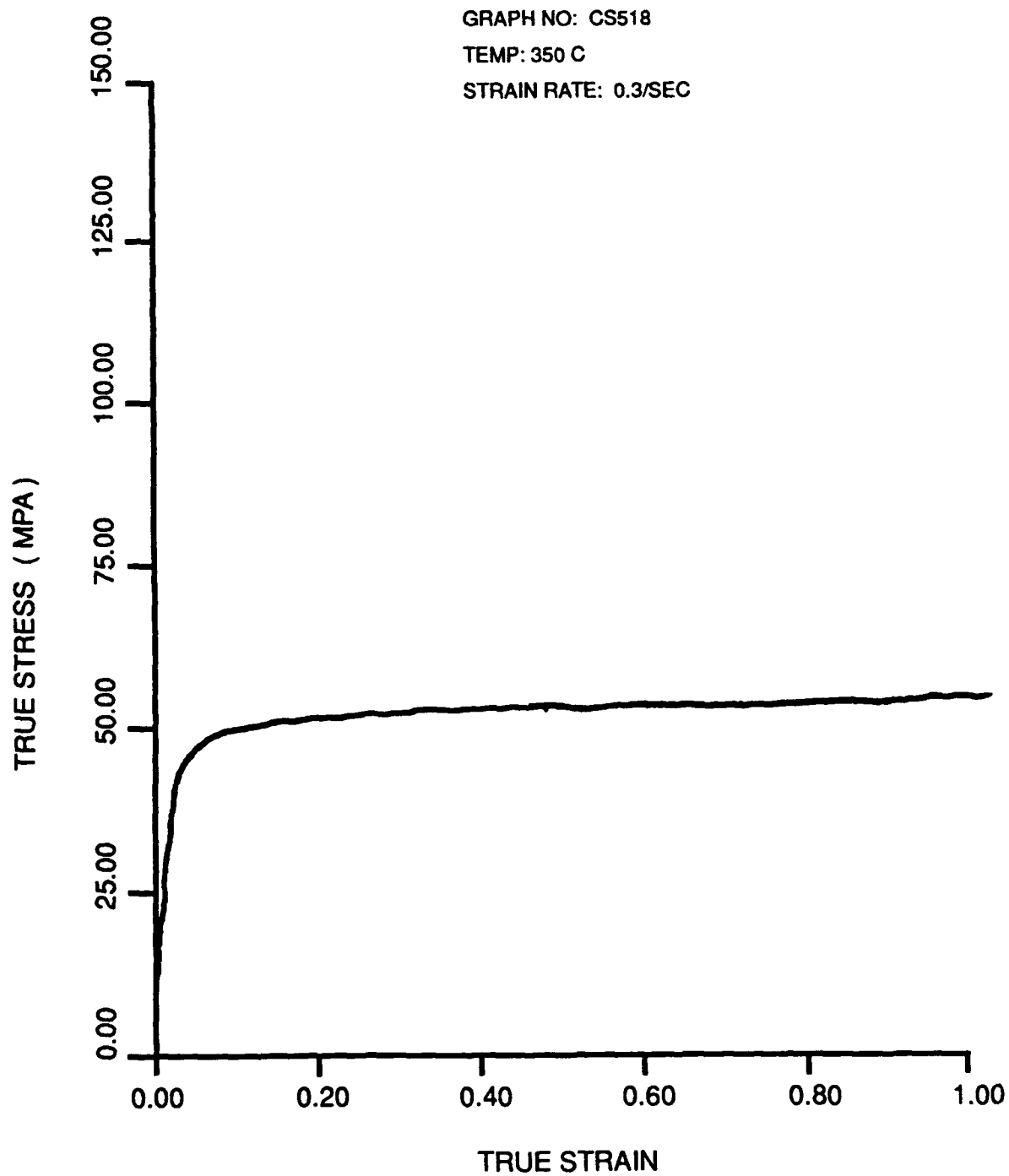


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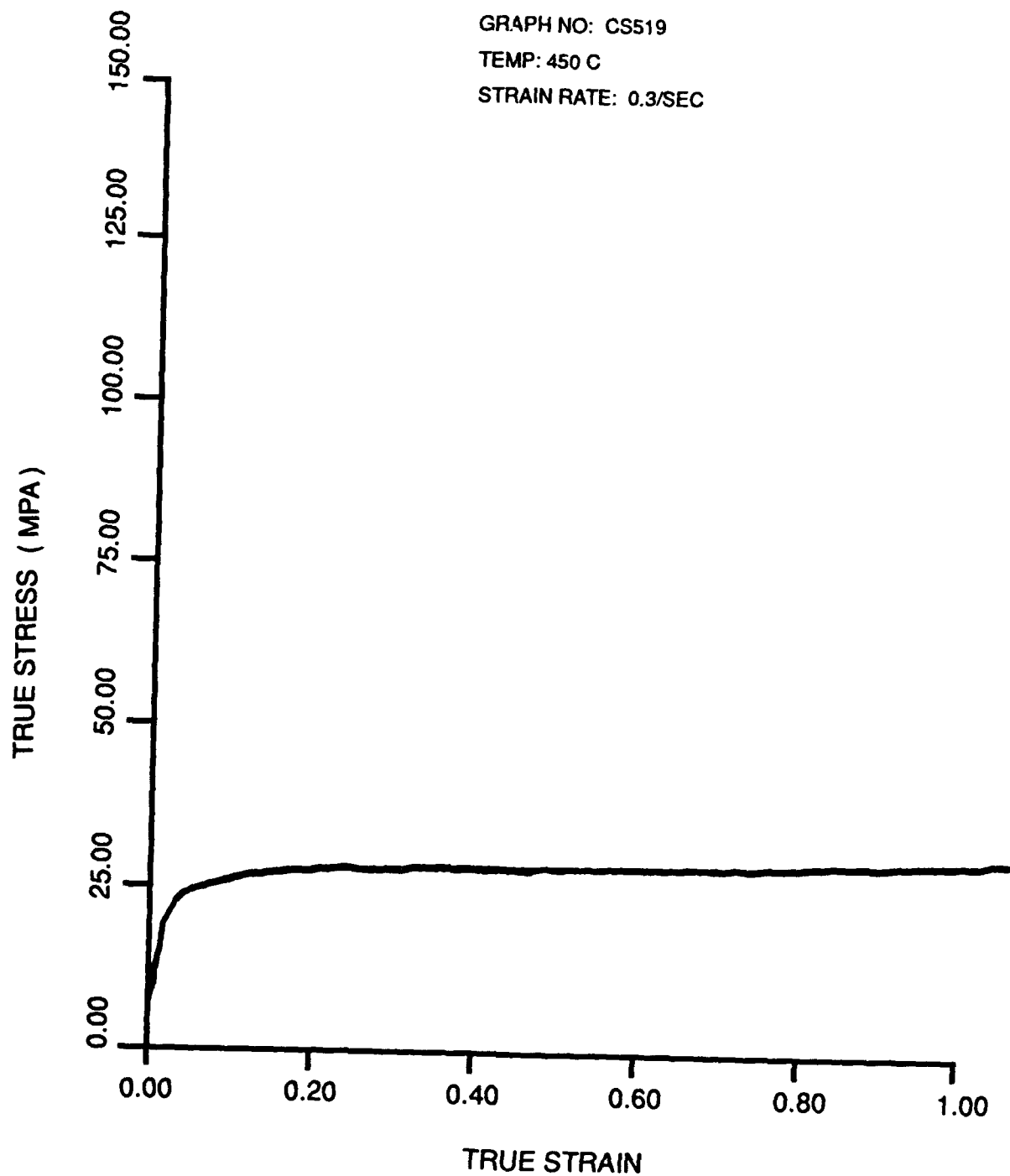
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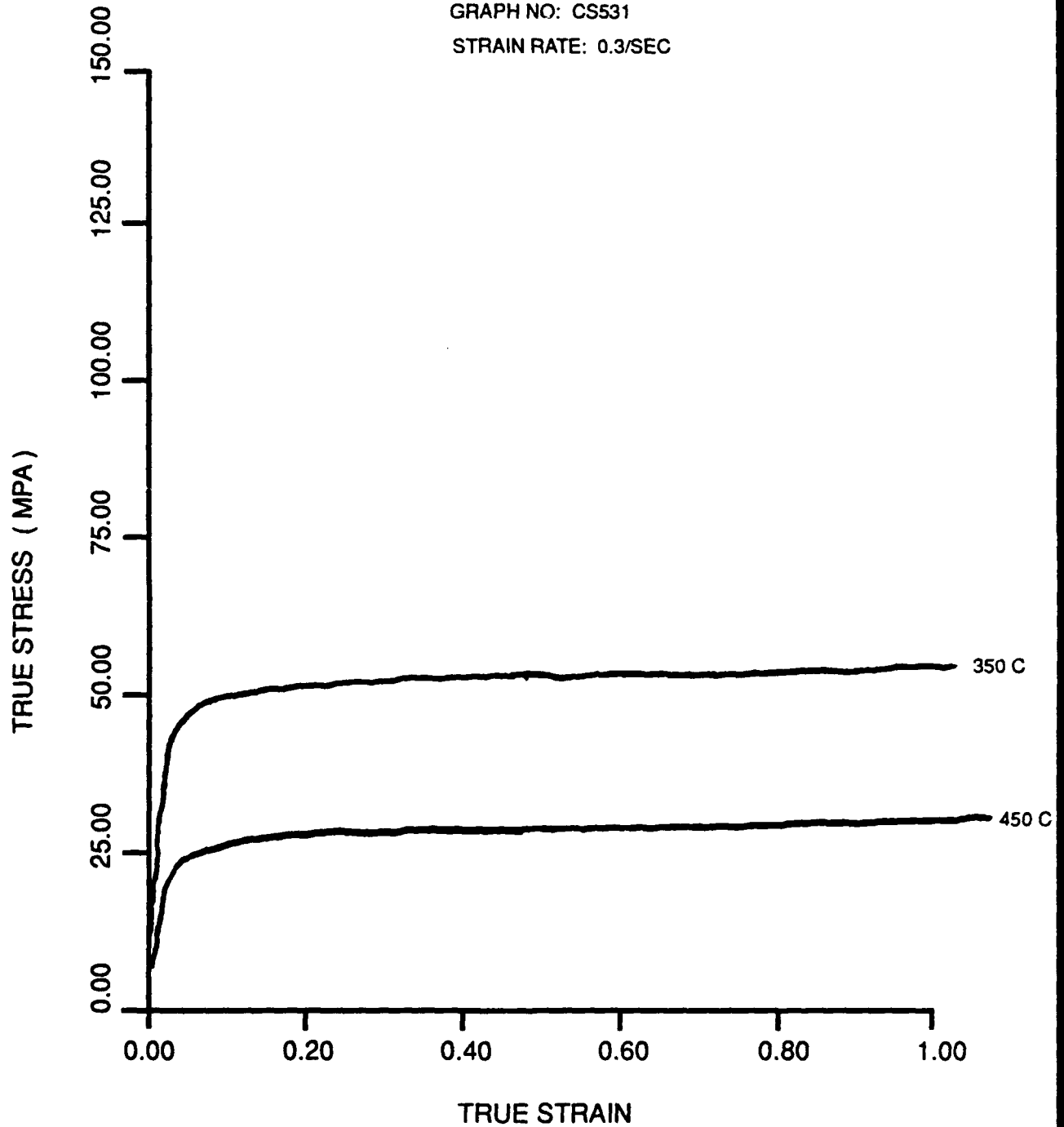
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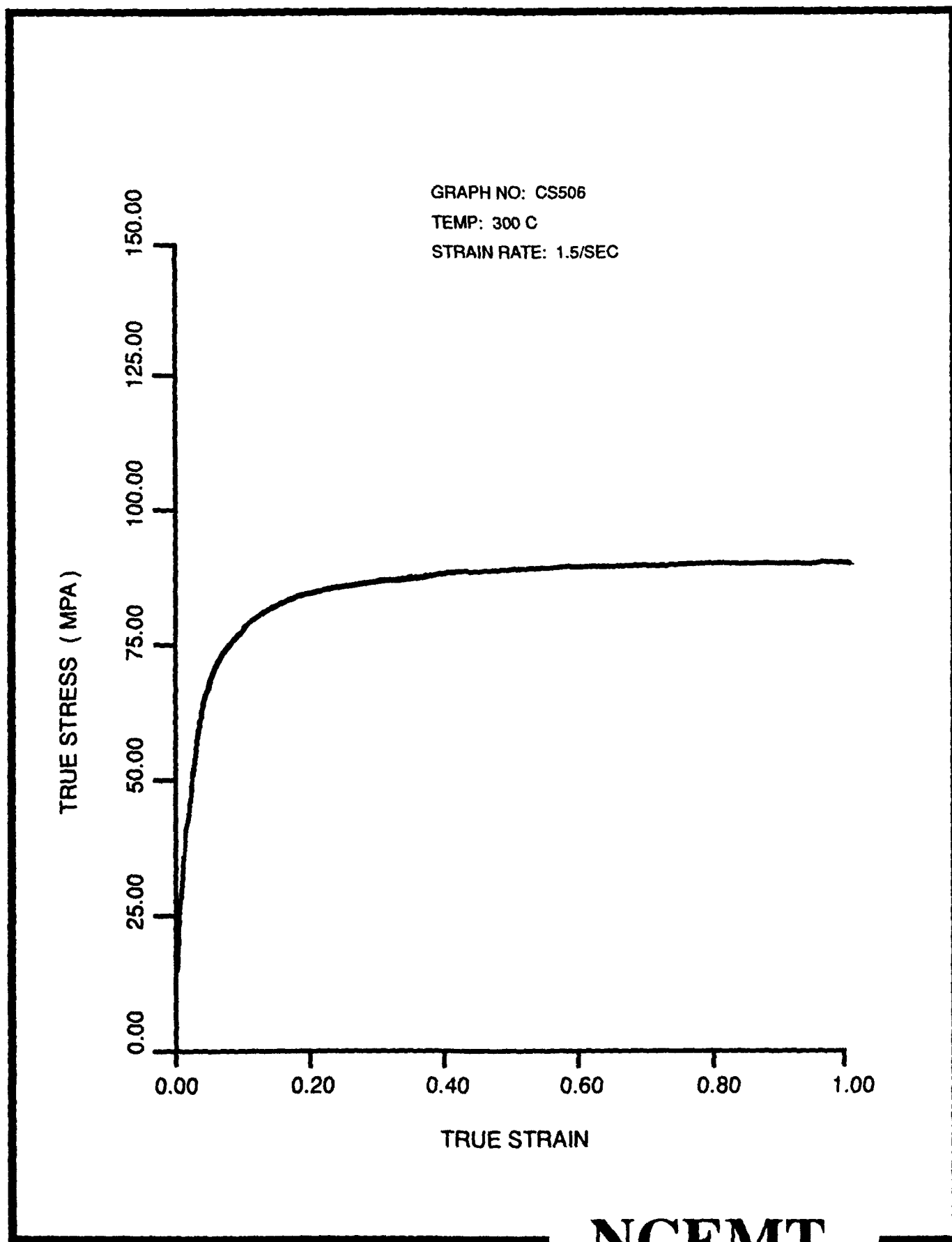
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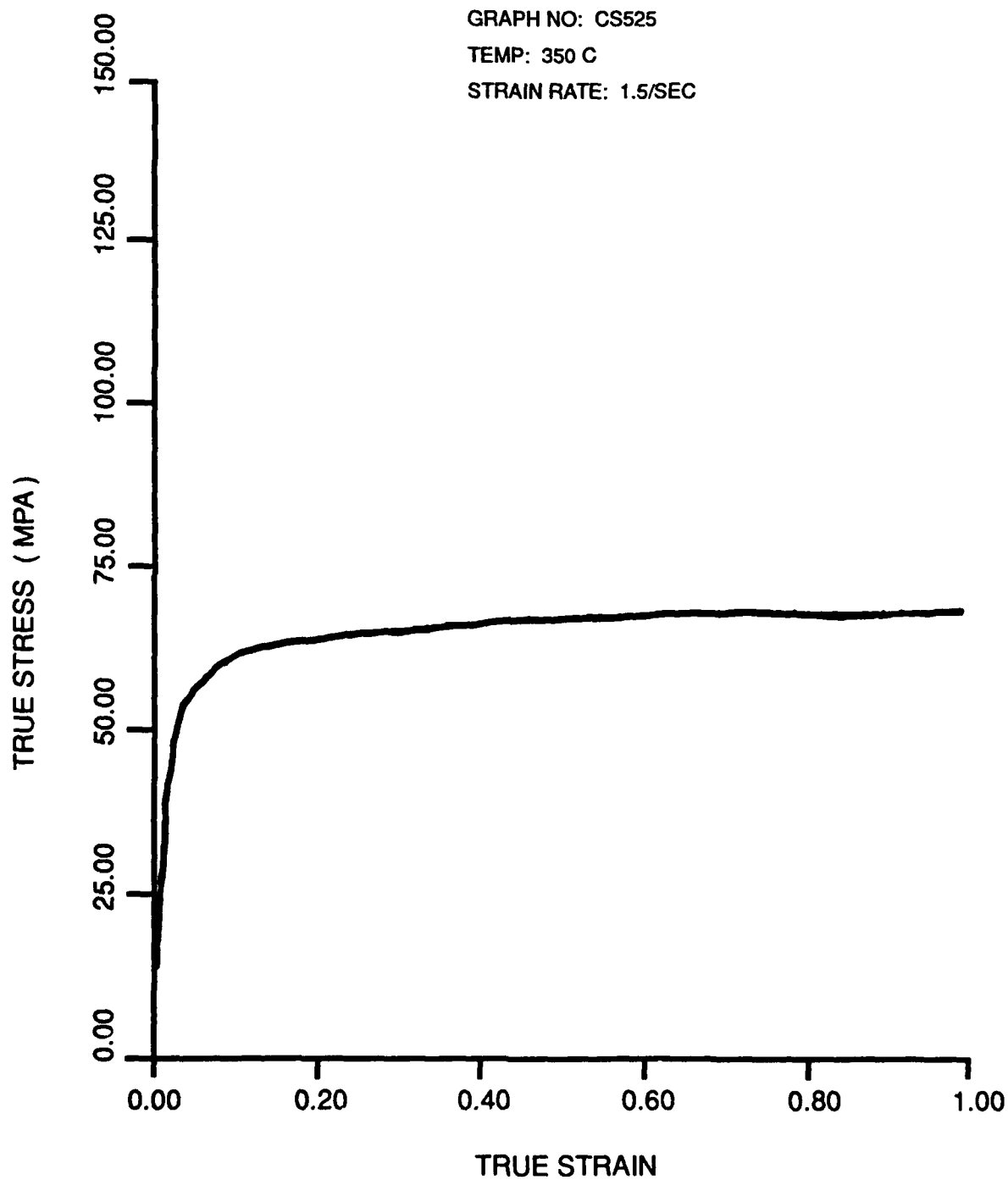
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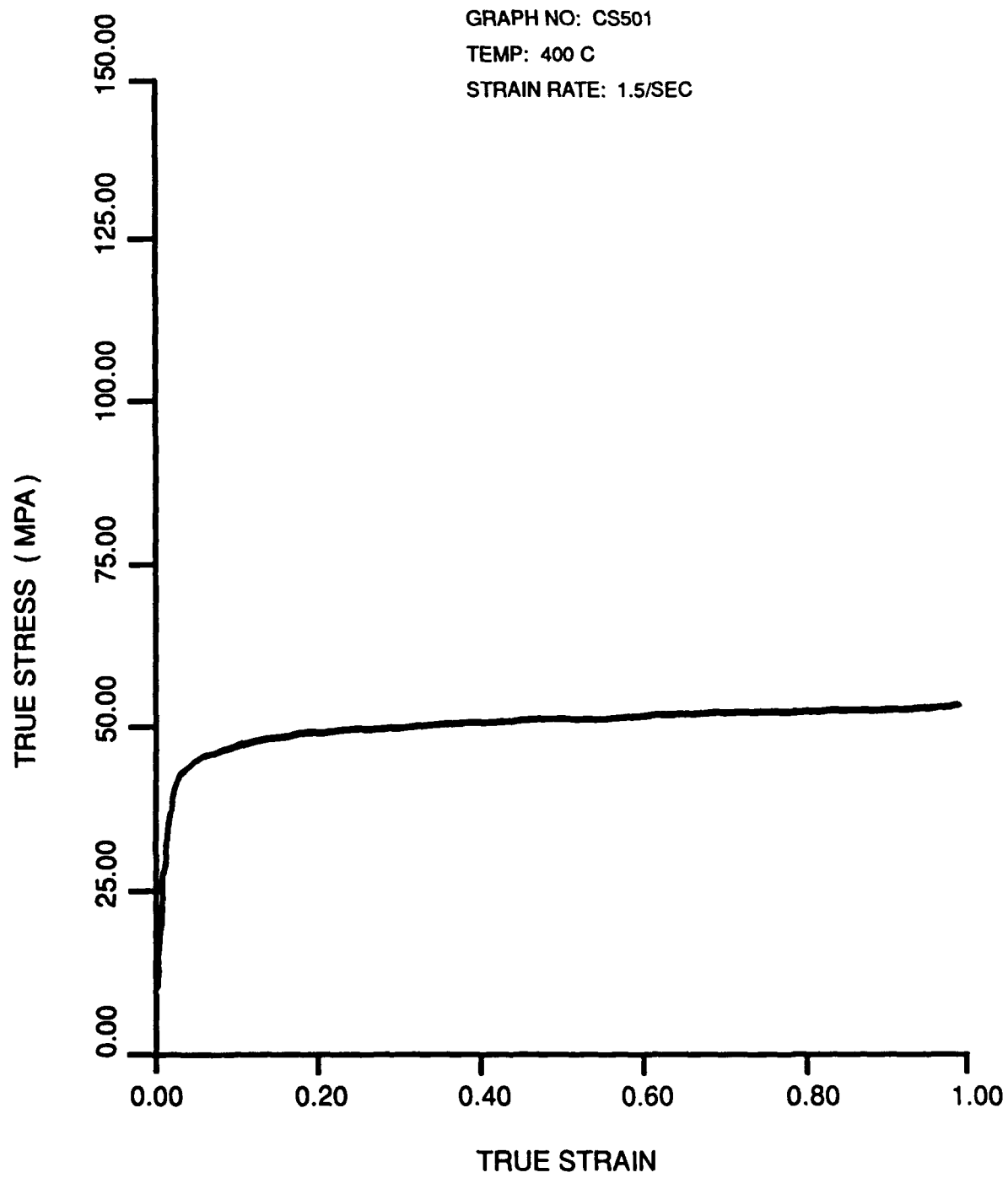


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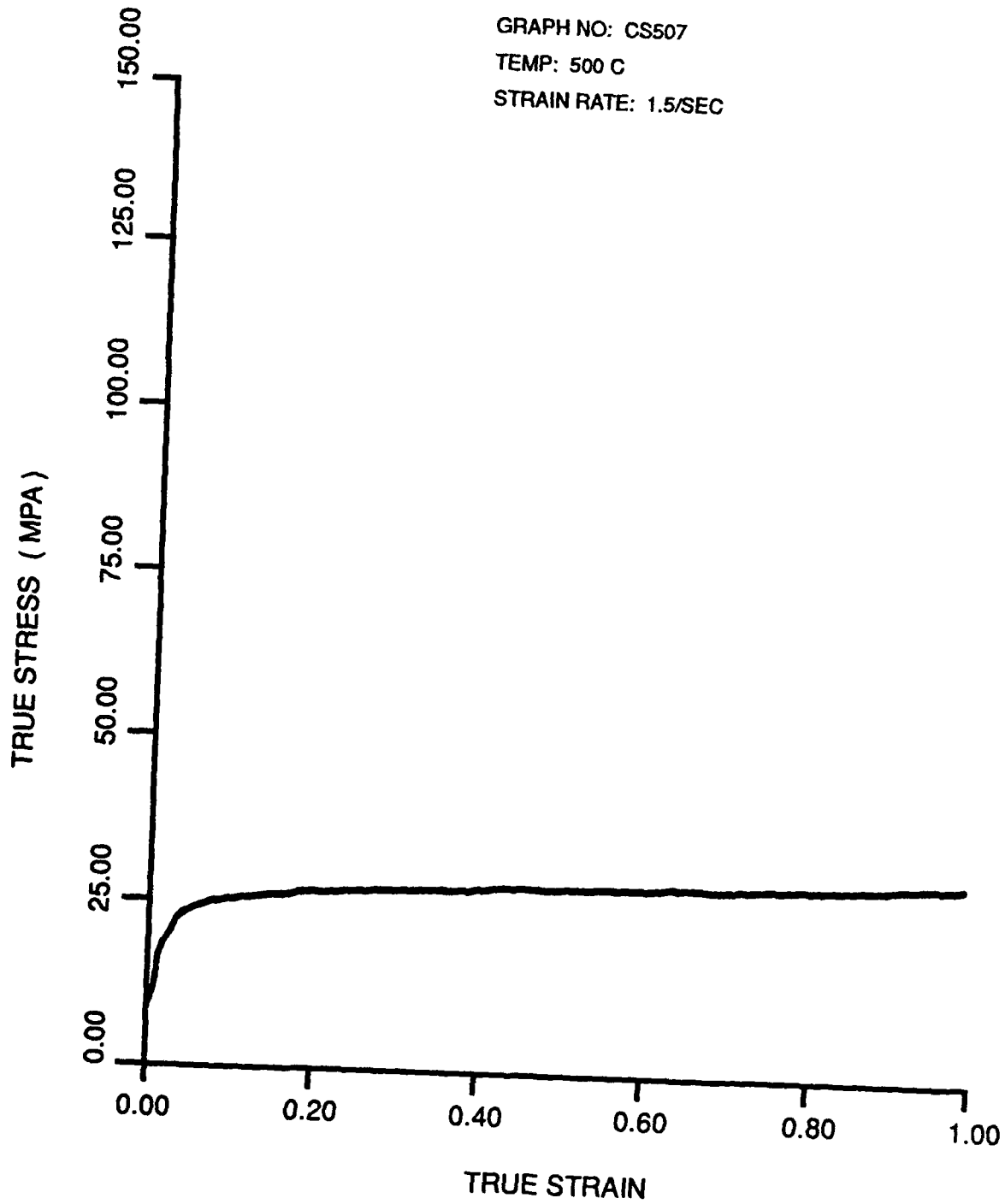




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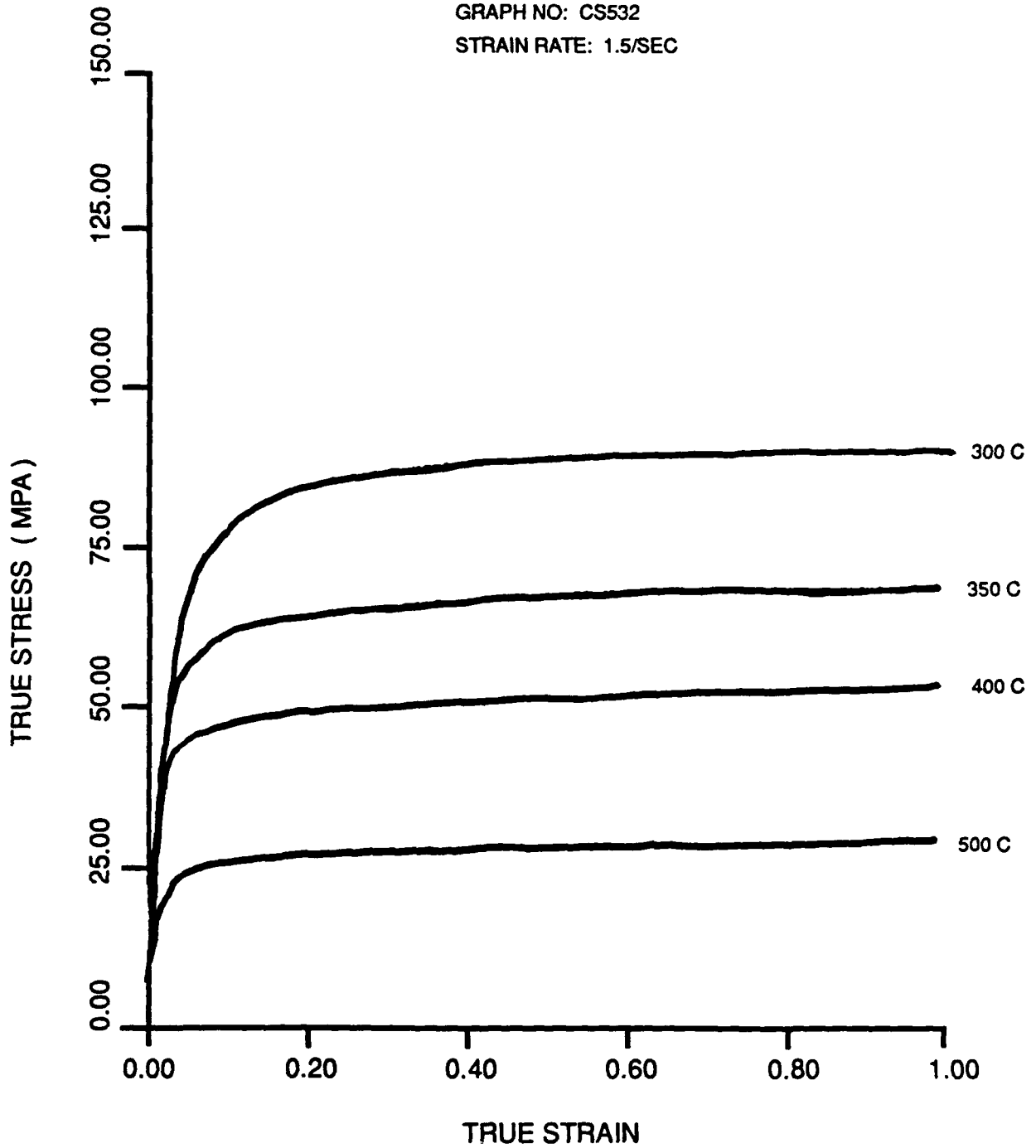


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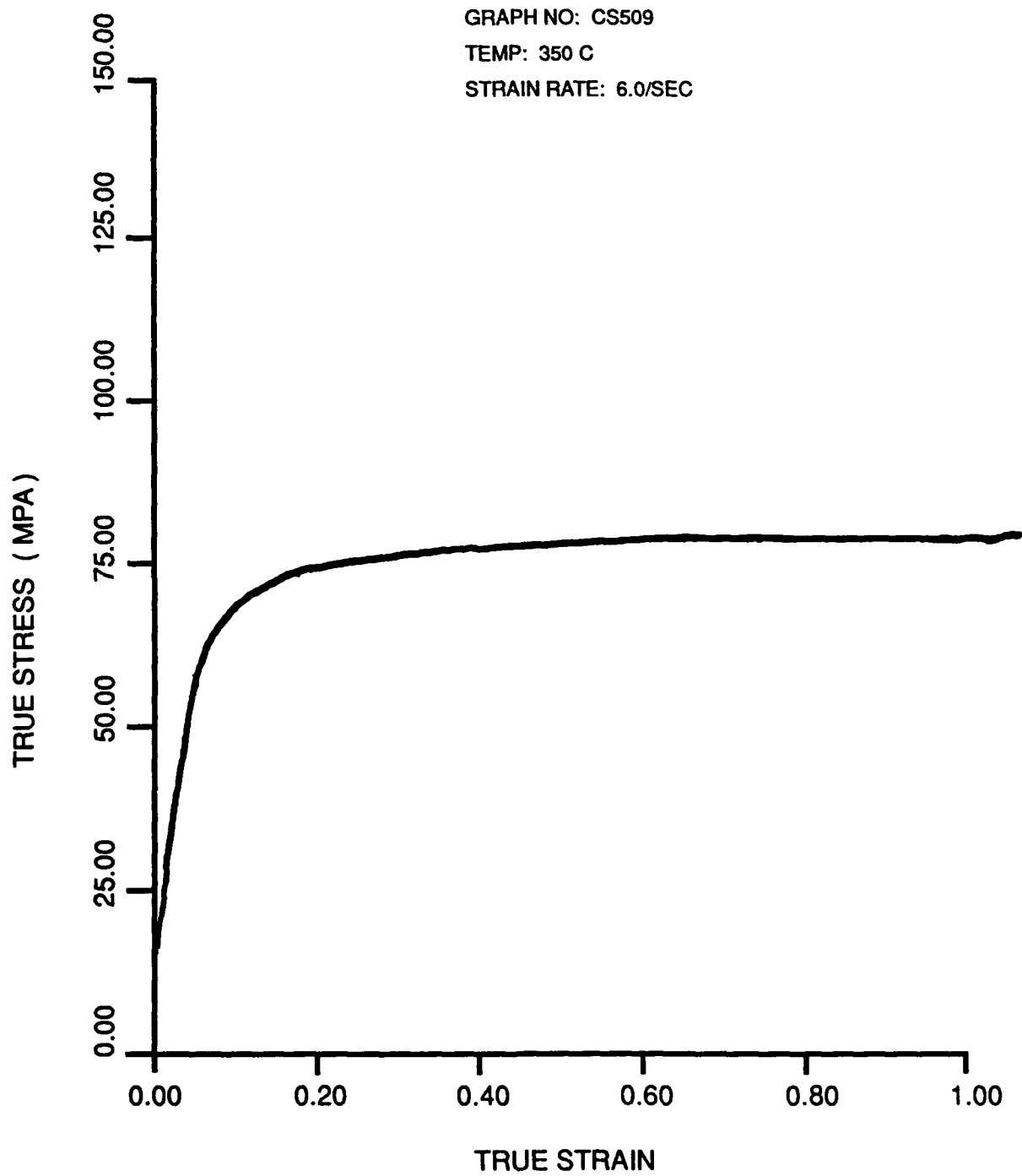


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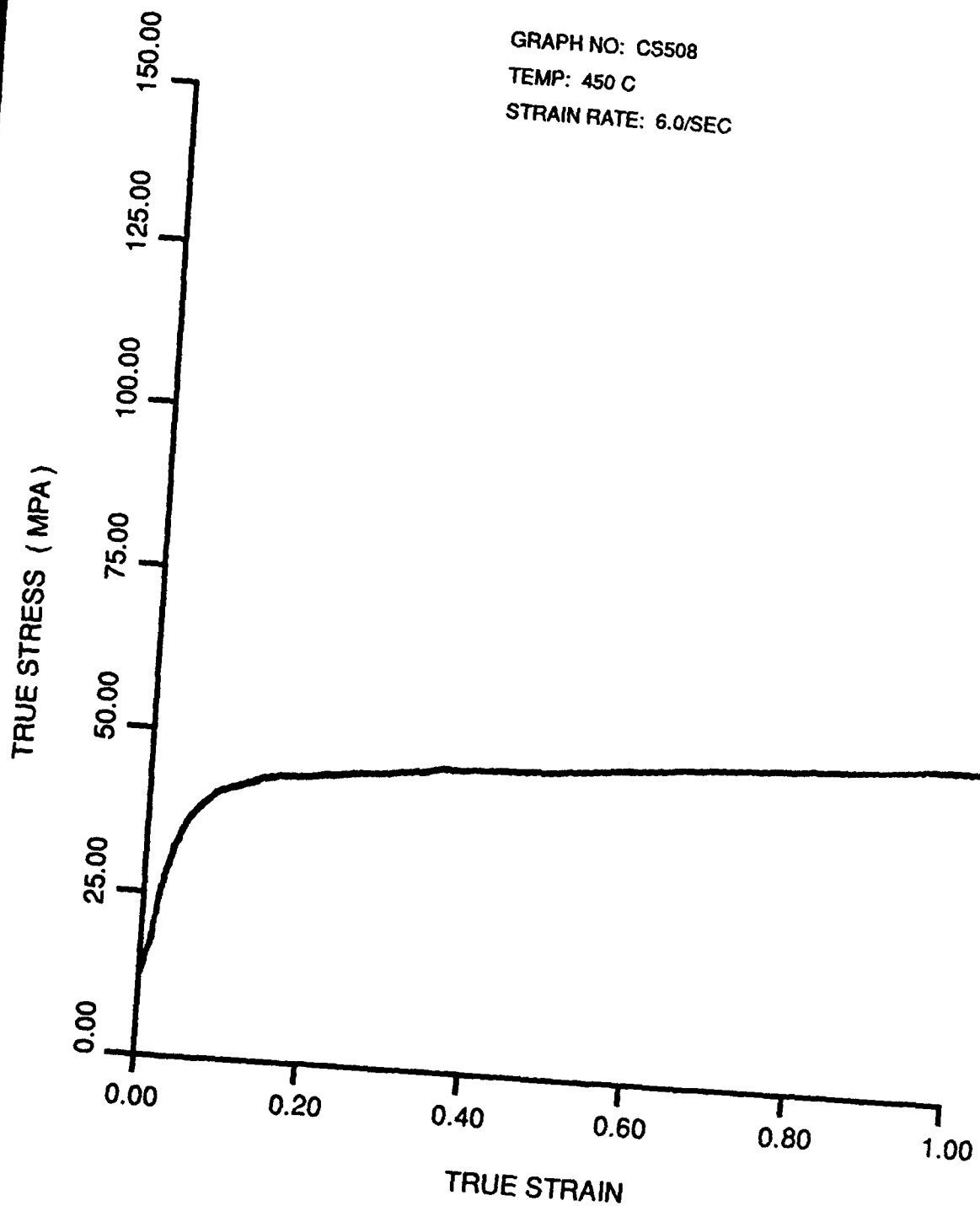


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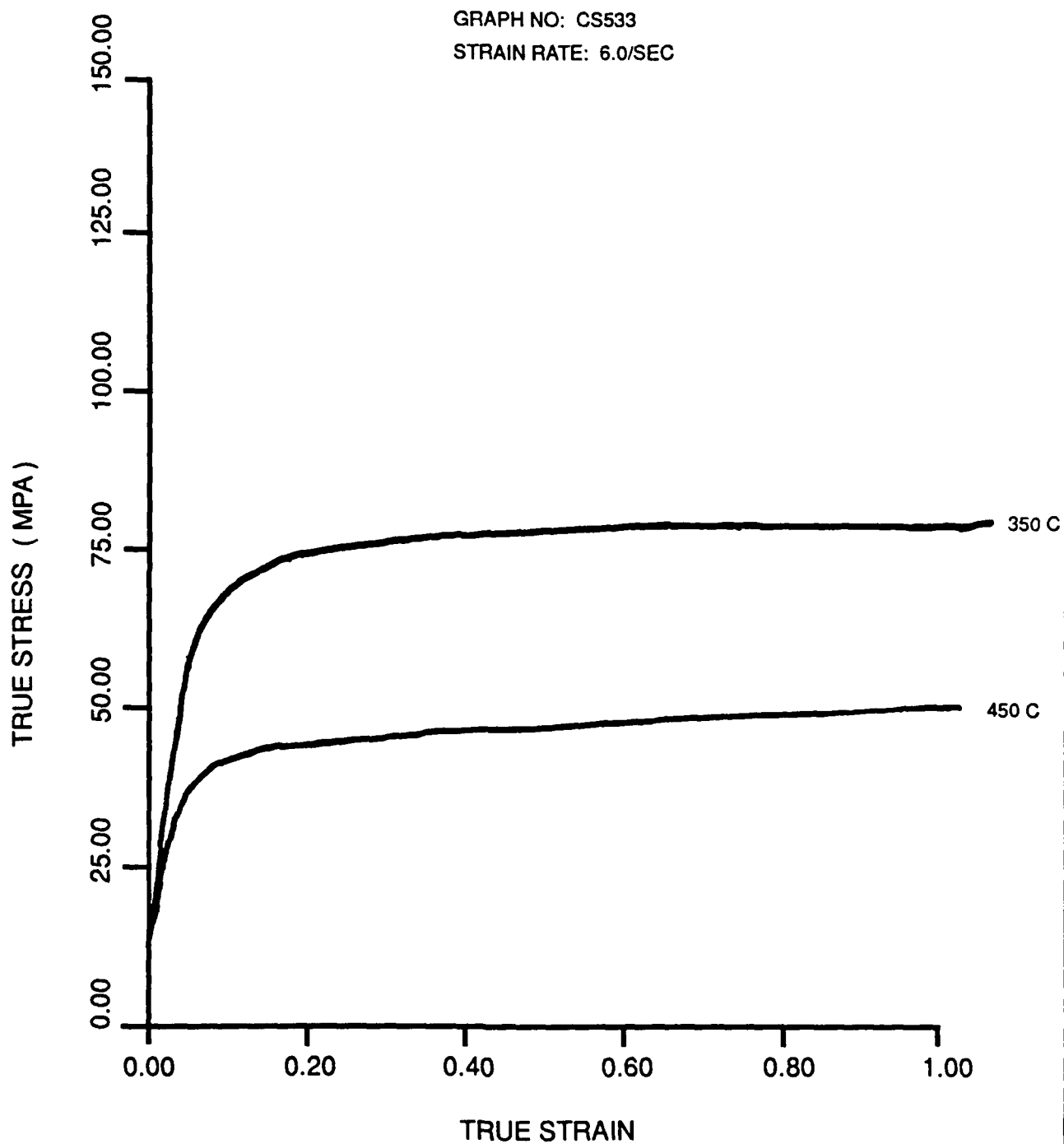


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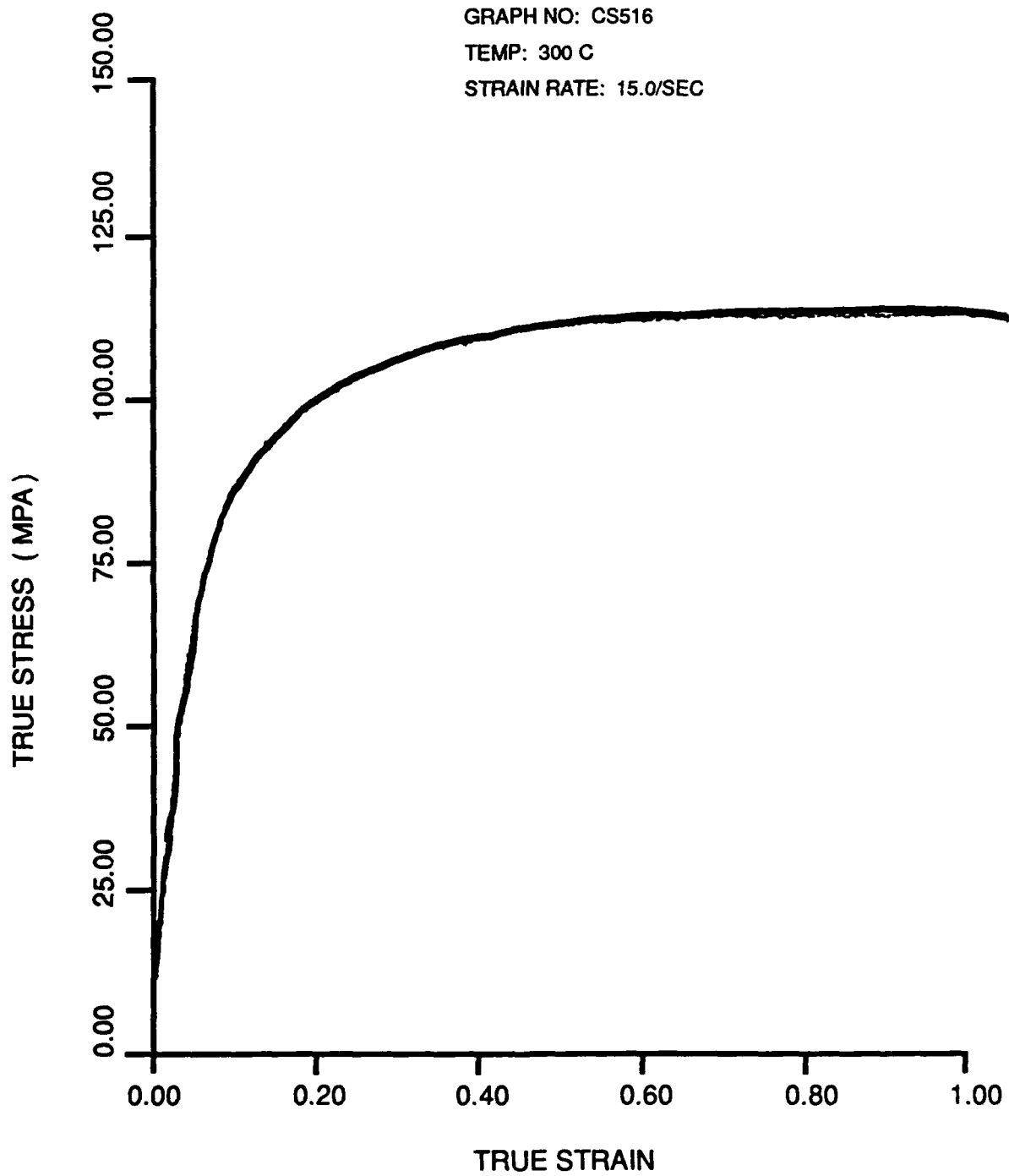
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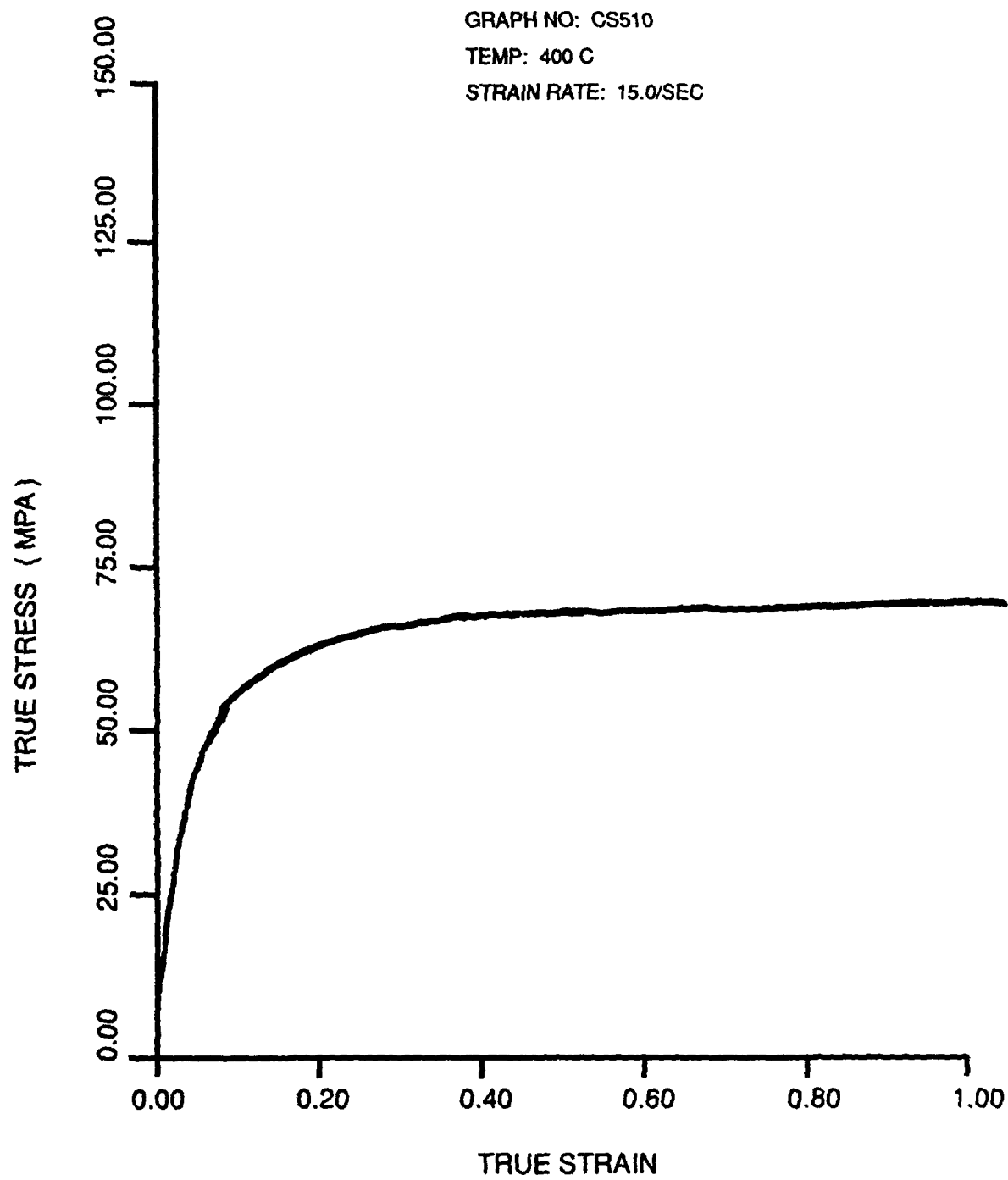
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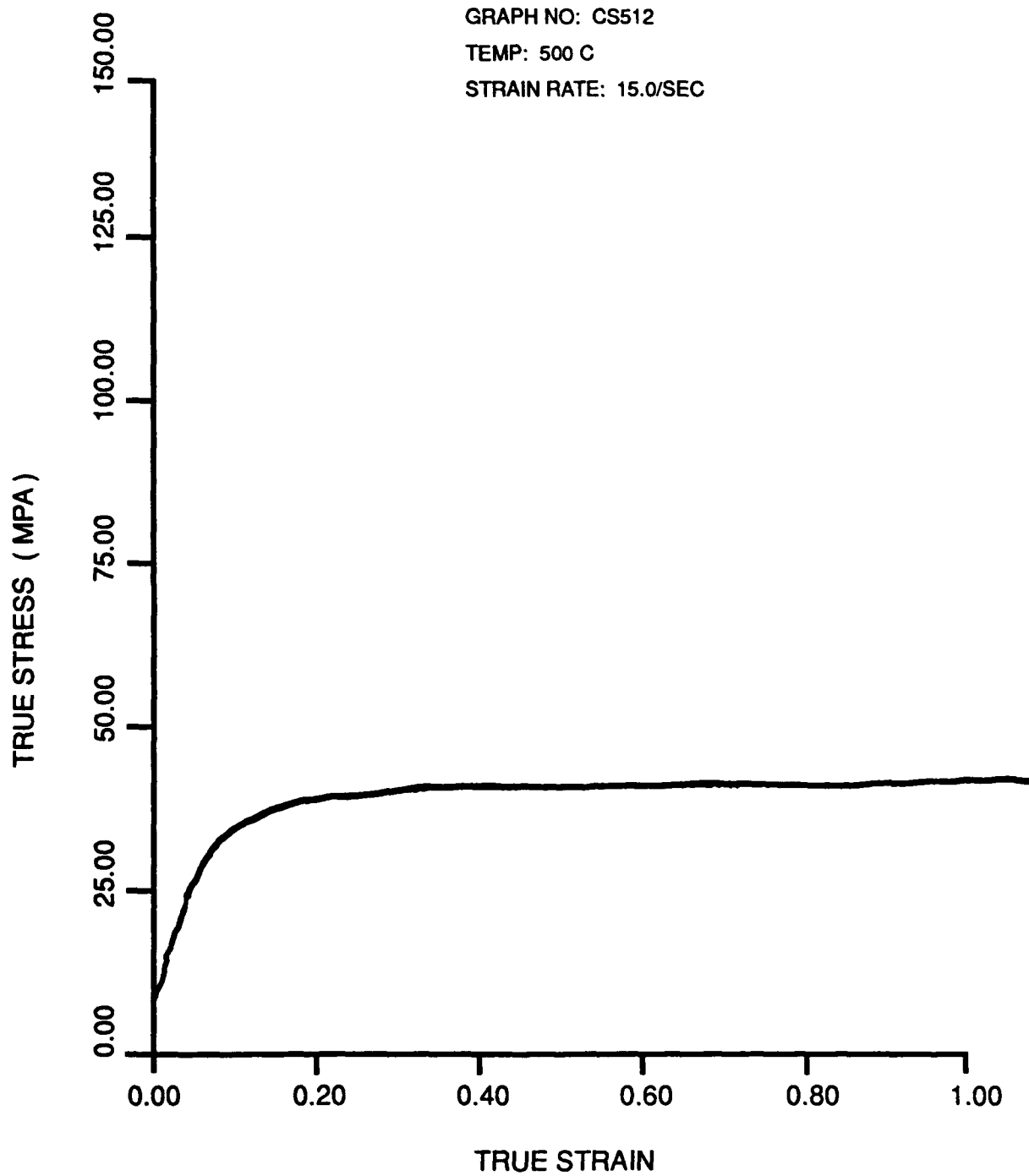
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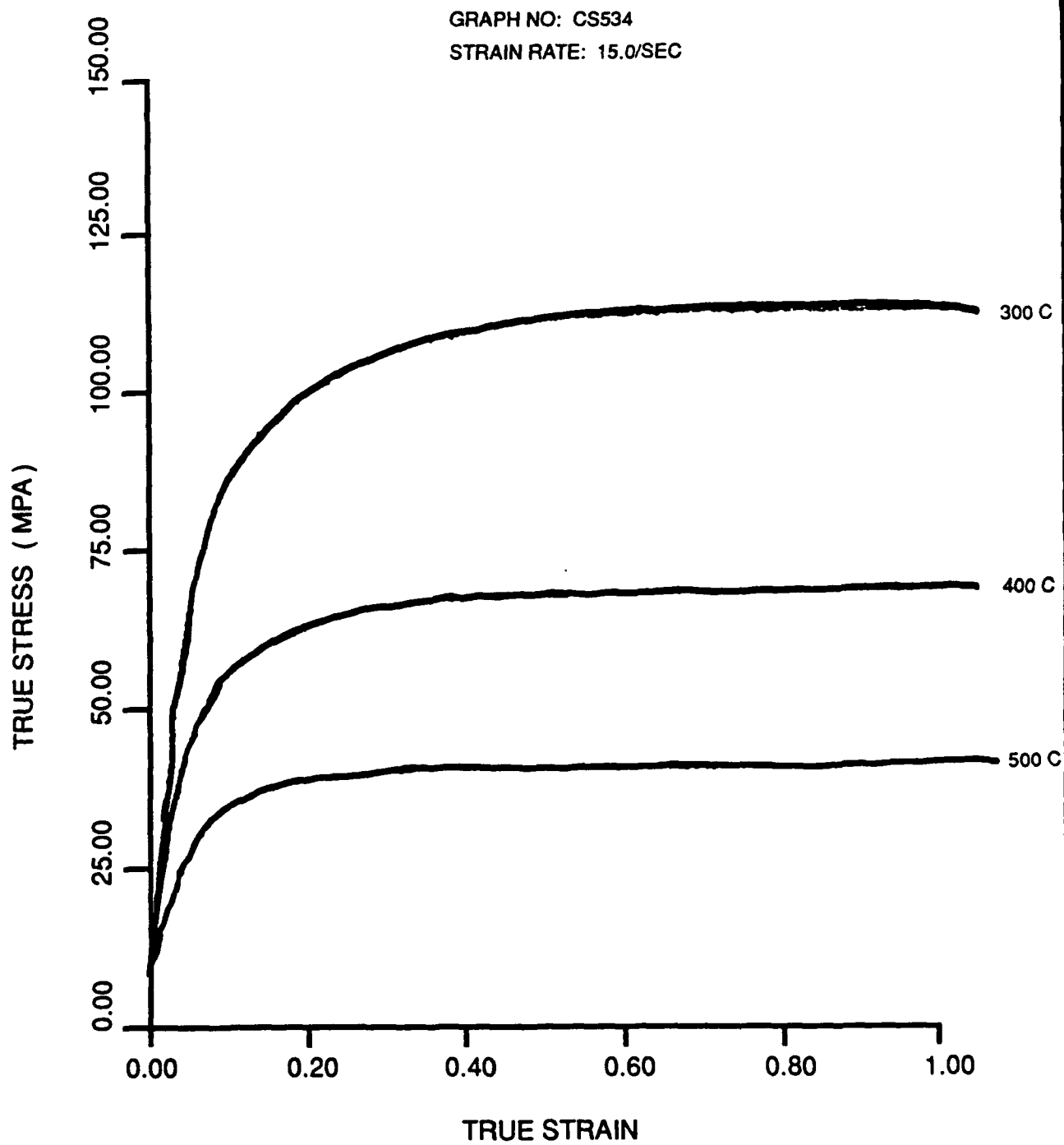
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